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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,750	02/14/2002	Claude Gauthier	03226.170001;P7188	9466

32615 7590 07/16/2003

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[REDACTED] EXAMINER

COX, CASSANDRA F

ART UNIT	PAPER NUMBER
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2816

DATE MAILED: 07/16/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/075,750	GAUTHIER ET AL.	
	Examiner	Art Unit	
	Cassandra Cox	2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 05 May 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 8 is/are allowed.
- 6) Claim(s) 1-7,9-18,20-29 and 31-33 is/are rejected.
- 7) Claim(s) 19 and 30 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 14 February 2002 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____ .
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .
- 4) Interview Summary (PTO-413) Paper No(s) _____ .
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____ .

DETAILED ACTION

1. Applicant's arguments filed 05/05/03 have been fully considered but they are not persuasive. Therefore the rejection with respect to claims 1-7, 9-18, 20-29, and 31-33 are repeated below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-7, 9-18, 20-29, and 31-33 are rejected under 35 U.S.C. 102(b) as being anticipated by Jenkins et al. (Measuring Jitter and Phase Error in Microprocessor Phase-Locked Loops, Keith A. Jenkins and James P Eckhardt, IEEE Design & Test of Computers, Apr-Jun. 2000, pp. 86-93).

In reference to claim 12, Jenkins discloses on page 90 (second column, first paragraph) a computer system for estimating jitter in a phase locked loop, comprising: a processor (see page 87, column 1, second paragraph); a memory (not shown, but considered to be an inherent part of a computer); and software instructions stored in the memory adapted to cause the computer system to: input a representative power supply waveform having noise into a simulation of the phase locked loop, wherein the noise is incident to supplying power to the phase locked loop; and estimate jitter of the phase

locked loop from the simulation (see Figure 6 and entire document). The same applies to claims 1 and 23.

In reference to claim 13, Jenkins also discloses that the representative power supply waveform is obtained from a physical system (see page 87, column 1, second paragraph). The same applies to claims 2 and 24.

In reference to claim 14, Jenkins further discloses that the physical system may comprise a printed circuit board (see page 86, column 2, final paragraph). The same applies to claims 3 and 25.

In reference to claim 15, Jenkins further discloses that the physical system may comprise a chip package (see page 86, column 2, final paragraph). The same applies to claims 4-5, 16, and 26-27.

In reference to claim 17, Jenkins further discloses that the representative power supply waveform is obtained from a location on a physical system adjacent to an intended location of the phase locked loop (see Figure 6 and page 91, lines 5-10). The same applies to claims 6 and 28.

In reference to claim 18, Jenkins discloses on pages 87 (the second paragraph) and 89 (the last paragraph) that the representative power supply waveform is obtained from a simulation of a power supply (this is seen to be accomplished when the injected noise is made to emulate the noise found in a particular system). The same applies to claims 7 and 29.

In reference to claim 20, Jenkins discloses in Figure 3 that the representative power supply waveform comprises a noise waveform combined with a power supply waveform. The same applies to claims 9 and 31.

In reference to claim 21, Jenkins discloses on page 91 that the representative power supply waveform is dependent on at least one selected from the group consisting of temperature (which is disclosed in lines 5-10 on page 91), voltage, frequency, and manufacturing process. The same applies to claims 10 and 32.

In reference to claim 22, Jenkins discloses on page 92 (second column, second paragraph) that the simulation of the phase locked loop is dependent on at least one selected from the group consisting of temperature, voltage, frequency, and manufacturing process. The same applies to claims 11 and 33.

Allowable Subject Matter

4. Claim 8 is allowed.
5. Claims 19 and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
6. The following is a statement of reasons for the indication of allowable subject matter: Claims 19 and 30 would be allowable because the closest prior art of record fails to disclose a circuit as shown in Figure because the closest prior art of record fails to disclose a system in which the simulation of the power supply is performed using a first simulation tool and the simulation of the phase locked loop is performed using a

second simulation tool in combination with the rest of the limitations of the base claims and any intervening claims.

7. The following is an examiner's statement of reasons for allowance: Claim 8 is allowed because the closest prior art of record fails to disclose a circuit as shown in Figure because the closest prior art of record fails to disclose a system in which the simulation of the power supply is performed using a first simulation tool and the simulation of the phase locked loop is performed using a second simulation tool in combination with the rest of the limitations of the base claims and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

8. Applicant's arguments filed on 05/05/03 have been fully considered but they are not persuasive. Applicant's argument that in the prior art reference (Jenkins) the noise is not incident to the supply of power to the phase locked loop is not persuasive. The noise generator disclosed in Jenkins outputs a power supply signal (V_{DDA}) that has a component of noise "incident" to the signal being supplied to the phase locked loop. Furthermore, this added limitation fails to change the overall operation of the system and does not patentably distinguish the claimed invention over the prior art reference.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cassandra Cox whose telephone number is 703-306-5735. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:30 PM and on alternate Fridays from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (703)-308-4876. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

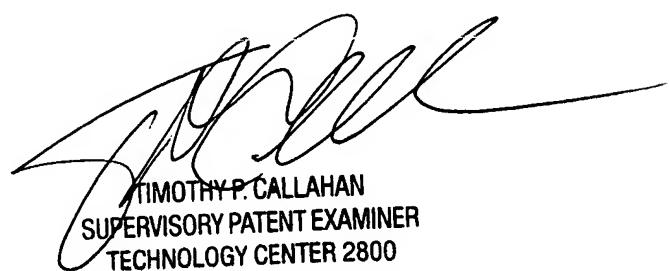
Art Unit: 2816

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

CC

CC

July 11, 2003



A handwritten signature in black ink, appearing to read "T.P. Callahan".

TIMOTHY P. CALLAHAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800